A Bibliography of the Rivers North Tyne, Wear, Tees and Swale

J. E. M. Horne
A BIBLIOGRAPHY OF

THE RIVERS

NORTH TYNE, WEAR, TEES AND SWALE

compiled by

J.E.M. Horne

Freshwater Biological Association

Occasional Publication No. 3

1977
This bibliography is intended to cover published and unpublished work on the freshwater sections of the rivers North Tyne, Wear, Tees and Swale, their tributaries and their catchment areas. References to the South Tyne and to some other rivers in the area have been included when apparently relevant, but have not been deliberately sought. No date limits have been fixed, but I have not attempted to cover all the work of nineteenth century naturalists, geologists and topographers, and it is likely that some papers published in 1975-76 may not have been seen by me. I hope to continue collecting references and would be glad to receive copies or notifications of papers omitted and new publications.

While I have tried to include all papers which deal with the physics, chemistry and biology of the four rivers, references to the catchment area are more selective. In particular there are many papers on the geology of the area which have not been cited; I have listed what seemed to be the most useful papers, and some of these include lengthy bibliographies. There are also many works on the Upper Teesdale flora which have not been included.

Another class of material which has not been completely covered comprises the distribution "records" of plant and animal species which are found in the excursion notes of local natural history societies and published in Naturalist and similar journals. While the accuracy of identifications may be in doubt and precise geographical locations are often hard to establish, such notes could help to form a useful picture of the flora and fauna for anyone who had time to go through them all. Short distribution notes, probably of greater authenticity, are also found scattered through a variety of entomological journals and many of these may have been overlooked. Papers on birds, with one or two exceptions, have not been included.

I have seen most of the published papers, and much of the unpublished work, on the four rivers themselves. References to papers which have not been seen, culled from other sources, are indicated by the letters NS. My own annotations are enclosed in square brackets. I regret that a number of references are incomplete; it seemed more useful to include them than to leave them out.

After the first section, comprising general works and all the
references which I thought relevant but not classifiable under one or more of the four rivers, the arrangement is primarily geographical, with the literature of each river basin subdivided by subject matter. Within each subdivision, references are in alphabetical order of author. Where a work refers directly to more than one of the four rivers, the reference is repeated in the appropriate sections; in the Author Index, however, only the first appearance of the reference is listed.

I am glad to acknowledge the help of Mr W.S. Woodward, Keeper of the Science Books at Durham University, whose "Sources of information on the natural history of County Durham" published in Vascularum, 57 (2) Supplement (1972) formed an excellent starting point for this work. I thank Mr R. Workman and Mrs S. Anketell of the Northumbrian Water Authority, Mrs C. Kirby of the Institute of Hydrology, Dr F.S. Maitland of the Institute of Terrestrial Ecology, Edinburgh, Dr D.T. Crisp and Mr I. Pettman of the Freshwater Biological Association, Dr B.A. Whitton & Dr N.T. Holmes of Durham University, and the staff of the Science Library at Durham and the University Library at Newcastle, for contributions and assistance. Miss Marilyn Benson typed the first draft on cards and Mrs J. Hawksford prepared the final camera copy. Most of the cost of the research involved in the preparation of this bibliography has been met by the Central Water Planning Unit as part of a contract to the Association.

The following abbreviations or identification marks are used in the bibliography:

L - paper held in FBA library.
FR - paper in a journal held in the Periodicals section of the FBA library.
BLLD/ - theses, etc, held by the British Library Lending Division. [The absence of such a sign does not imply that BLLD does not hold the work]
NS - original work has not been seen by the compiler
RC - the original work has been seen and its bibliography checked for further references.
RNC - the original work has been seen, but references not checked.

Journal titles have been abbreviated in accordance with the principles of the 4th edition of the World List of Scientific Periodicals.
1.2 BOTANY


1.3 ZOOLOGY

Alder, J. (1848). Catalogue of Mollusca of Northumberland and Durham. Tyneside Nat.Fld Club, 1, (2) [marine and freshwater - locations given] NR

Bagnall, R.S. (1906). Additions to the Coleoptera of the Northumberland and Durham district. Entomologist's Rec.J.Var. 18, 323-324. [cited by Foster (1970)] NR
Harrison, J.W.H. (1918). Rare Hemiptera-Heteroptera in the north-eastern counties with notes on other forms. Entomologist, 51, 2-5. [from small loughs, etc.] NR PR


Temperley, G.W. (1931). A history of the birds of Durham [Co.] Trans. nat. Hist. Soc. Northumb. NS 9, 1-296. [has a good bibliography on the birds of the area; these refs have not been indexed. See also Ornithological Reports for Northumberland and Durham in subsequent numbers] PR


1.5


North-East Development Association (1950). A physical land classification of Northumberland, Durham and part of the North Riding of Yorkshire. NS


1.6 WATER SUPPLY


Durham County Water Board (1924-36). Triennial Reports. NS

Durham County Water Board. Description of works. [cited Tarren (1959)] NS


THE RIVER TYNE AND ITS CATCHMENT AREA

2.1 SURVEYS & GENERAL WORKS

2.1 a) The River


Northumberland and Tyneside River Board. Annual reports, 1951-1964. [N. Tyne, Derwent] PR


2.1 b) Works of Historical and Topographical Interest

Charleton, R.J. n.d. (19-). A history of Newcastle-upon-Tyne. Robinson. [Information on Tyne floods] NS

Cuthrie, J. (1880). The River Tyne - its history and resources. Newcastle. Reid & Co. [mainly the port; a few salmon statistics] NR


Hindmarsh, R.F. (1947). The Tyne - an account of its history and development. Institution of Civil Engineers, Summer meeting. NS


Sopwith, T. (1833). An account of the mining districts of Alston Moor, Weardale and Teesdale, comprising descriptive sketches of the scenery, antiquities, geology and mining operations in the upper dales of the rivers Tyne, Wear and Tees. Alnwick. NS


2.2 BOTANY & MICROBIOLOGY

2.2 a) The River


Murray, J. (1924). Some Bryophyta of the North Tyne. Vasculum, 10, 3, 73-75. [includes some in streams] NR PR

2.2 b) The Catchment Area


Griffiths, B.M. (1936). A preliminary list of the freshwater algae of Northumberland and Durham. Vasculum, 22, 89-95. NR L
2.3 ZOOLOGY. FISHERIES.

2.3 a) The River


Berrington, A.D. (1891). Report by the Chief Inspector of Fisheries on an investigation as to the expediency of altering the commencement and termination of the annual close season for salmon in the Tyne Fishery District. Annual Reports of the Inspector of Fisheries (England and Wales). 30, App. 1, 31-37. PR


Davis, P.S. (1971). The ecology of Ancylus fluviatilis, Muller, in streams and rivers in parts of Northumberland and Durham. MSc dissertation, Durham. [R. Tyne, Wear, etc.] RC


Hiley, P.B. (1973). The taxonomy of certain caddis-fly larvae, together with an investigation into factors limiting the distribution of selected species. PhD Thesis, Newcastle. [Includes records from 1 site on Tyne, 10 on Tees] RC


Inspectors of Fisheries (England & Wales). [Annual reports from about 1860 to about 1900 on salmon and freshwater fisheries include reports and statistics from Tees, Tyne and Wear.] London. HMSO. [Followed by Board of Agriculture and Fisheries Annual Reports of Proceedings under the Salmon and Freshwater Acts, etc. and then by Reports on Salmon and Freshwater Fisheries by the Ministry of Agriculture and Fisheries.] L


Berrington, A.D. (1891). Report by the Chief Inspector of Fisheries on an investigation as to the expediency of altering the commencement and termination of the annual close season for salmon in the Tyne Fishery District. Annual Reports of the Inspector of Fisheries (England and Wales). 30, App. 1, 31-37. PR


Berrington, A.D. (1891). Report by the Chief Inspector of Fisheries on an investigation as to the expediency of altering the commencement and termination of the annual close season for salmon in the Tyne Fishery District. Annual Reports of the Inspector of Fisheries (England and Wales). 30, App. 1, 31-37. PR


Berrington, A.D. (1891). Report by the Chief Inspector of Fisheries on an investigation as to the expediency of altering the commencement and termination of the annual close season for salmon in the Tyne Fishery District. Annual Reports of the Inspector of Fisheries (England and Wales). 30, App. 1, 31-37. PR


Berrington, A.D. (1891). Report by the Chief Inspector of Fisheries on an investigation as to the expediency of altering the commencement and termination of the annual close season for salmon in the Tyne Fishery District. Annual Reports of the Inspector of Fisheries (England and Wales). 30, App. 1, 31-37. PR

2.3b The Catchment Area


Tyne Salmon Conservancy Board (1930-36). Annual Reports and statement of accounts, the Salmon Fishery Board for the Fishery District of the River Tyne. Hexham. [see Tyne Fishery Board for continuation] NR PR

2.3c HYDROLOGY & HYDROGRAPHY OF THE RIVER


2.4 HYDROLOGY & HYDROGRAPHY OF THE RIVER

2.5 GEOLOGY & METEOROLOGY OF THE CATCHMENT


British Rainfall (1864- (annually)). [Tables include annual rainfall and no. of days with rain at stations in all catchment areas. Monthly figures since about 1860. 1861 has 25 N.Tyne stations, 37 Wear, 51 Tees, 23 Swale.] PR(some)

Bulman, H.F. (1908). The weather at Burnopfield during 1906/07. Vale of Derwent Nat.Pld Club, NS, 1, 1, 66-71 [also "... during 1908" (1913) 1, 2, 159-162; and "... during the last four years" (1913) 1, 2, 162-165] NS


Hackett, B. (1972). Landscape development of steep slopes, with particular reference to the steep banks of the Tyne. Oriel Press. NS


2.6 ENGINEERING: WATER SUPPLY


3. THE RIVER WEAR AND ITS CATCHMENT AREA

3.1 SURVEYS & GENERAL WORKS

3.1 a) The River


Wear and Tees River Board (1951-65). Annual Reports, 1951-1965. (cont’d in Reports on Northumbrian River Authority). Rainfall, fisheries, analyses of river waters, effluents, etc. From 1961, charts of av. daily flow at various gauging stations.] PR(some)


3.1 b) Works of Historical and Topographical Interest

British Association for the Advancement of Science (1970). Durham County and City with Teesside, (ed. J.C. Dewdney). Durham, British Association. 522pp. [Chapters on environment included under authors; there are also sections on archaeology, industry, etc.] RC


River Wear Commissioners (n.d.) Wear Commissioners’ MSS. [manuscript records held by Wear Commissioners, St. Thomas Street, Sunderland (cited by Kirby 1968)] NS


Surtees, R. (1834). History and antiquities of the County Palatine of Durham. 4 vols. [Wear & Tees; flood records, etc.] NS


3.2 BOTANY & MICROBIOLOGY

3.2 a) The River


3.2 b) The Catchment Area


3.3 ZOOLOGY. FISHERIES

3.3 a) The River


3.3 b) The Catchment Area


Fordham, W.J. (1926). Notes on some Durham Diptera. Vasculum, 12, 71-76 & 84-85. [additions to Wingate (1903) ] [R.C PR]


Wingate, W.J. (1905). Coleoptera. Victoria County History of the County of Durham, 1. [quoted by Foster (1970)] NS


3.4 HYDROLOGY & HYDROGRAPHY OF THE RIVER


3.5 GEOLOGY & METEOROLOGY OF THE CATCHMENT


British Rainfall (1864-) (annually) [details in section 2.5] NS


3.6 ENGINEERING : WATER SUPPLY


Clark, G.T. (1849). A preliminary inquiry into the sanitation, drainage and supply of water to the City of Durham. London. NS


Weardale & Consett Water Company (1914-19). Chairman's Report and Accounts. NS
4. THE RIVER TEES AND ITS CATCHMENT AREA

4.1 SURVEYS AND GENERAL WORKS

4.1 a) The River


Water Pollution Research Board (1933). Report for the year ended 30th June 1933. DSIR [R. Tees] NS


Wear and Tees River Board. Annual Reports, 1951-1965. [Rainfall, fisheries, analyses of river waters, effluents, etc. From 1961, charts of average daily flow at various gauging stations. Cont'd in Reports of Northumbrian River Authority.] PR [1954-65]


4.1 b) Works of Historical and Topographical Interest


British Association for the Advancement of Science (1970). Durham County and City with Teesside, (ed. J.C. Dewdney). Durham. British Association. 522pp. [Chapters on environment listed under their authors; there are also sections on archaeology, industry, etc.] RC


Hogg, J. (1827). Natural history of the vicinity of Stockton-on-Tees. NS


Sopwith, T. (1833): An account of the mining districts of Alston Moor, Weardale and Teesdale, comprising descriptive sketches of the scenery, antiquities, geology and mining operations in the upper dales of the rivers Tyne, Wear and Tees. Alnwick. NS

Surtees, R. (1834). History and antiquities of the County Palatine of Durham. 4 vols. [Wear & Tees; flood records, etc.] NS


4.2 BOTANY & MICROBIOLOGY

4.2 a) The River


4.2 b) The Catchment Area


Backhouse, J. & J. (1843). An account of a visit to Teesdale in the summer of 1843. Phytologist, 1, 892-895. NS


Griffiths, B.M. (1936). A preliminary list of the freshwater algae of Northumberland and Durham. VascuIm, 22, 89-95. NL PR


4.3 a) The River


Armitage, P.D. (in prep.). The composition and abundance of benthos in the Tees and in Maize Beck below Cow Green dam: longitudinal zonation and annual changes in the first five years after impoundment. [provisional title]

Armitage, P.D. (in prep.). The macro-invertebrate fauna in Cow Green reservoir in the first five years of its existence. [Tees]


4.3a 37


Birkett, N.L. (1976). Chironomidae (Diptera) trapped in a Pennine stream, including two species new to Britain. Entomologist's Gaz. 27, 161-70. [Rough Sike, tributary of Tees] RC PR


Crisp, D.T. (in press). Changes in the freshwaters of the Cow Green Area as a result of impoundment, with special reference to the fauna. [In a book to be publ. on Teesdale (Collins)] [Tees]

Crisp, D.T. & Cubby, P.R. (in prep.). The populations of fish in some tributaries of the River Eden on the Moor House National Nature Reserve. [comparison with Tees] [Tees]

Crisp, D.T. & Mann, R.H.K. (in prep.). An analysis of fishery records from Cow Green Reservoir, Upper Teesdale, for the seasons 1971 to 1975 inclusive. [Tees]


Crisp, D.T., Mann, R.H.K. & McCormack, J.C. (in prep.). The effects of impoundment and regulation upon the stomach contents of fish at Cow Green, Upper Teesdale.


Inspectors of Fisheries (England & Wales). Annual reports from about 1860 to about 1900 on salmon and freshwater fisheries include reports and statistics from Tyes, Tyne and Wear. See 2.3a


Kemball, A.G. (1967). Estimation of the numbers of leeches in the River Wear and some of its tributaries, with notes on the factors affecting them. MSc Dissertation, Durham. [Wear and tributaries above Durham; also Upper Tees] RC


Roberts, S.A.S. (1971). Studies on selected aspects of the ecology of Vella caprai and some Gerris species. MSc Dissertation, Durham. [Tees (Dedgen Pot, Moor House NNR) Wear (Dedgen Field Sta)] RNC


Tees Fishery Board (1901-1941). The Tees Fishery District. Annual reports of the Board of Conservators. Darlington. RC PR (part)


4.3a b) The Catchment Area


Fordham, W.J. (1926). Notes on some Durham Diptera. Vascularium, 12, 71-76 & 84-85. [additions to Wingate (1903)] RC FR
4.4 HYDROLOGY & HYDROGRAPHY OF THE RIVER


4.5 GEOLOGY AND METEOROLOGY OF THE CATCHMENT


Bellamy, D.J., Bradshaw, N.E. et al. (1966). Two Quaternary deposits in the lower Tees basin. New Phytol. 65, 429-442. RC PR


British Rainfall (1864-). [annually] [details in section 2.5]


Calver, R. (1884). Notes on the geology and natural history of the County of Durham. Bishop Auckland. NS


Manley, G. (1943). Further climatological averages for the northern Pennines with a note on topographical effects. Q.J. R. met.Soc. 69, 251-261. [records from Moor House, Upper Teesdale] RC


4.6 ENGINEERING : WATER SUPPLY


Clark, G.T. (1849). A preliminary inquiry into the sanitation, drainage and supply of water to the City of Durham. London. NS


House of Lords Select Committee (1967). Special report on Tees Valley and Cleveland Water Bill. J.Br.Watwks Ass. 49, 93-97. NR PR


Northumbrian River Authority (1965). Report by Chief Engineer on proposal by Tees Valley and Cleveland Water Board to obtain increased supplies of water from the River Tees catchment area. NRA 1965, CFR 357-011 (unpubl.) (also "Supplementary Report...ditto") NS

Northumbrian Water Authority (1973). The concept of effective release for a regulated river. NWA, Div. of P & SS (Res. & Data Collection Section) CFR 017-408 [Tees] NS


5. THE RIVER SWALE AND ITS CATCHMENT AREA

5.1 SURVEYS & GENERAL WORKS


Yorkshire River Authority (1972-74). Annual reports. PR

5.2 BOTANY


5.3 ZOOLOGY. FISHERIES.


Yorkshire Fishery Board (c. 1866 –). Annual reports on the salmon, trout, and freshwater fisheries in Yorkshire. [R. Swale] NS

5.4 HYDROLOGY : HYDROGRAPHY


5.5 GEOLOGY – METEOROLOGY


British Rainfall (1864-) (annually) [details in section 2.5]


Dent, R.G. (1965). The sand and gravel industry of the Tees and mid-Swale valleys. Undergraduate Dissertation (Geogr.), Durham. NS


5.6 WATER SUPPLY


AUTHOR INDEX

By first author only. References are to sections; within each section references are arranged alphabetically by author.

<table>
<thead>
<tr>
<th>Author</th>
<th>Section</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adamson, P.T.</td>
<td>2.4</td>
</tr>
<tr>
<td>Alder, J.</td>
<td>1.3</td>
</tr>
<tr>
<td>Aldrick, R.J.</td>
<td>5.5</td>
</tr>
<tr>
<td>Alexander, W.B., Southgate</td>
<td>4.1a</td>
</tr>
<tr>
<td>Arkwright, A.F. &amp; Bussink</td>
<td>4.1a</td>
</tr>
<tr>
<td>Alleridge, S.S.</td>
<td>3.6</td>
</tr>
<tr>
<td>Allen, J.</td>
<td>2.3a</td>
</tr>
<tr>
<td>Allen, S.E.</td>
<td>4.25</td>
</tr>
<tr>
<td>Anderson, T.W.</td>
<td>1.2</td>
</tr>
<tr>
<td>Archer, E.</td>
<td>2.4</td>
</tr>
<tr>
<td>Armitage, P.D.</td>
<td>4.3a</td>
</tr>
<tr>
<td>Armitage, P.D. &amp; Capper</td>
<td>4.3a</td>
</tr>
<tr>
<td>Armitage, P.D. MacHale</td>
<td>4.3a</td>
</tr>
<tr>
<td>Atkinson, G.C.</td>
<td>2.5</td>
</tr>
<tr>
<td>Atkinson, K.</td>
<td>3.5</td>
</tr>
<tr>
<td>Aubrook, E.W.</td>
<td>5.3</td>
</tr>
<tr>
<td>Aubrook, E.W. &amp; Fryer</td>
<td>5.3</td>
</tr>
<tr>
<td>Backhouse, J.</td>
<td>4.2b</td>
</tr>
<tr>
<td>Bagnall, B.</td>
<td>1.3</td>
</tr>
<tr>
<td>Bailey, A.D.</td>
<td>4.5</td>
</tr>
<tr>
<td>Baker, J.G.</td>
<td>4.1b</td>
</tr>
<tr>
<td>Baker, J.G. &amp; Tate</td>
<td>1.2</td>
</tr>
<tr>
<td>Barber, S.</td>
<td>1.6</td>
</tr>
<tr>
<td>Barnes, E.</td>
<td>4.2b</td>
</tr>
<tr>
<td>Bartley, B.D., Chambers &amp; Hart-Jones</td>
<td>4.2b</td>
</tr>
<tr>
<td>Barton, R.R.</td>
<td>2.4</td>
</tr>
<tr>
<td>Bass, K.T.</td>
<td>4.6</td>
</tr>
<tr>
<td>Bedlow, A.H.</td>
<td>3.2b</td>
</tr>
<tr>
<td>Beaumont, P.</td>
<td>4.5</td>
</tr>
<tr>
<td>Bellamy, D.J.</td>
<td>4.2b</td>
</tr>
<tr>
<td>Bellamy, D.J., Bradshaw, et al.</td>
<td>4.5</td>
</tr>
<tr>
<td>Bellamy, D.J., Bridgewater, Marshall &amp; Tickle</td>
<td>4.2b</td>
</tr>
<tr>
<td>Benham, B.R.</td>
<td>4.4</td>
</tr>
<tr>
<td>Berrett, A.D.</td>
<td>2.3a</td>
</tr>
<tr>
<td>Birbeck, R.L.</td>
<td>4.3a</td>
</tr>
<tr>
<td>Black, M.H.</td>
<td>2.4</td>
</tr>
<tr>
<td>Blackburn, E.P.</td>
<td>1.3</td>
</tr>
<tr>
<td>Block, M.G.</td>
<td>1.3</td>
</tr>
<tr>
<td>Board of Agric. &amp; Fish.</td>
<td>1.3</td>
</tr>
<tr>
<td>Boswell, N.</td>
<td>3.4</td>
</tr>
<tr>
<td>Boon, P.J. &amp; Shires</td>
<td>2.4</td>
</tr>
<tr>
<td>Bores, F.L.</td>
<td>3.5</td>
</tr>
<tr>
<td>Boys, A.F.</td>
<td>2.3a</td>
</tr>
<tr>
<td>Bradshaw, M.R.</td>
<td>4.1b</td>
</tr>
<tr>
<td>Brady, G.S.</td>
<td>1.2</td>
</tr>
<tr>
<td>Bray, F.P.</td>
<td>2.3b</td>
</tr>
<tr>
<td>Bridgewater, P.</td>
<td>1.2</td>
</tr>
<tr>
<td>Bridgewater, P. &amp; Jones</td>
<td>1.2</td>
</tr>
<tr>
<td>Brindle, A.</td>
<td>5.3</td>
</tr>
<tr>
<td>British Ass. Advmtn. Sci.</td>
<td>1.1</td>
</tr>
<tr>
<td>British Rainfall</td>
<td>2.5</td>
</tr>
<tr>
<td>British Waterworks Ass.</td>
<td>4.6</td>
</tr>
<tr>
<td>Brown, A.J.</td>
<td>2.2b</td>
</tr>
<tr>
<td>Brown, J.M.</td>
<td>5.3</td>
</tr>
<tr>
<td>Brown, J.M. &amp; Whitehead</td>
<td>4.3a</td>
</tr>
<tr>
<td>Brown, W.Y.</td>
<td>3.3a</td>
</tr>
<tr>
<td>Brown, W.M., Cragg &amp; Crisp</td>
<td>4.3a</td>
</tr>
<tr>
<td>Brown, W.M., Shrubden &amp; Shaw</td>
<td>4.3a</td>
</tr>
<tr>
<td>Bull, H.O.</td>
<td>2.3a</td>
</tr>
<tr>
<td>Bulman, M.J.</td>
<td>2.5</td>
</tr>
<tr>
<td>Burgess, A.S.</td>
<td>1.5</td>
</tr>
<tr>
<td>Burleigh, D.G., Wise &amp; Gray</td>
<td>2.3b</td>
</tr>
<tr>
<td>Burston, D.T. &amp; Coats</td>
<td>2.6</td>
</tr>
<tr>
<td>Butterfield, J.A.</td>
<td>4.2b</td>
</tr>
<tr>
<td>Butcher, F.H., Longwell, &amp; Pentelow</td>
<td>4.1a</td>
</tr>
<tr>
<td>Butterfield, J.A.</td>
<td>4.3</td>
</tr>
<tr>
<td>Butterfield, J.B.L.</td>
<td>1.3</td>
</tr>
<tr>
<td>Cairney, T.</td>
<td>4.4</td>
</tr>
<tr>
<td>Cairney, T., Storey</td>
<td>4.6</td>
</tr>
<tr>
<td>Calvert, R.</td>
<td>4.5</td>
</tr>
<tr>
<td>Carter, J.R.</td>
<td>4.2a</td>
</tr>
<tr>
<td>Carter, F.C. &amp; Hille</td>
<td>2.6</td>
</tr>
<tr>
<td>Cassie, W.F., Miller, Allen &amp; Ball</td>
<td>2.4</td>
</tr>
<tr>
<td>Catchpole, A.J.W.</td>
<td>1.5</td>
</tr>
<tr>
<td>Chambers, C.</td>
<td>4.2b</td>
</tr>
<tr>
<td>Chapman, A.H.</td>
<td>4.4</td>
</tr>
<tr>
<td>Chapman, S.B.</td>
<td>2.2b</td>
</tr>
<tr>
<td>Chappell, L.H.</td>
<td>1.3</td>
</tr>
<tr>
<td>Chappell, L.H. &amp; Owen</td>
<td>1.3</td>
</tr>
<tr>
<td>Charlton, R.J.</td>
<td>2.1b</td>
</tr>
<tr>
<td>Clark, G.T.</td>
<td>3.6</td>
</tr>
<tr>
<td>Clay, C.</td>
<td>4.4</td>
</tr>
<tr>
<td>Clennell, T.</td>
<td>1.3</td>
</tr>
<tr>
<td>Clough, C.T.</td>
<td>2.5</td>
</tr>
<tr>
<td>Clough, J.</td>
<td>4.6</td>
</tr>
<tr>
<td>Name</td>
<td>Page Numbers</td>
</tr>
<tr>
<td>-----------------------------</td>
<td>--------------</td>
</tr>
<tr>
<td>Phillipson, J.</td>
<td>2.3a, 3.3b</td>
</tr>
<tr>
<td>Pigott, C.D.</td>
<td>4.2b</td>
</tr>
<tr>
<td>Pott, J.G.</td>
<td>5.3</td>
</tr>
<tr>
<td>Proctor, H.G.</td>
<td>4.2a</td>
</tr>
<tr>
<td>Raistrick, A.</td>
<td>1.5, 2.5, 5.5</td>
</tr>
<tr>
<td>Raistrick, A. &amp; Blackburn</td>
<td></td>
</tr>
<tr>
<td>Rayner, D.H. &amp; Hemingway</td>
<td>4.5</td>
</tr>
<tr>
<td>Ramesden, D.M.</td>
<td>4.1b</td>
</tr>
<tr>
<td>Ratcliffe, D.A.</td>
<td>4.2b</td>
</tr>
<tr>
<td>Rawes, M. &amp; Welch</td>
<td>4.2b</td>
</tr>
<tr>
<td>Reeves, M.J., Birtles, Courchee &amp; Aldrick</td>
<td>5.4</td>
</tr>
<tr>
<td>Richardson, D.</td>
<td>3.1a</td>
</tr>
<tr>
<td>River Wear Commissioners</td>
<td>3.1b</td>
</tr>
<tr>
<td>Roberts, B.K., Turner &amp; Ward</td>
<td>3.1b</td>
</tr>
<tr>
<td>Roberts, S.A.S.</td>
<td>4.3a</td>
</tr>
<tr>
<td>Robertson, D.M. &amp; Johnson</td>
<td>2.4</td>
</tr>
<tr>
<td>Robinson, C.</td>
<td>1.2</td>
</tr>
<tr>
<td>Robinson, G. &amp; Smith</td>
<td>4.6</td>
</tr>
<tr>
<td>Robson, D.A.</td>
<td>2.5</td>
</tr>
<tr>
<td>Rodwell, J.A.</td>
<td>3.6</td>
</tr>
<tr>
<td>Roebeck, W.D.</td>
<td>1.3, 5.3</td>
</tr>
<tr>
<td>Rowseil, H.</td>
<td>2.5, 5.5</td>
</tr>
<tr>
<td>Ruffle, N.J.</td>
<td>2.6</td>
</tr>
<tr>
<td>Ryder, P.F.</td>
<td>5.5</td>
</tr>
<tr>
<td>Sargent, A.J.</td>
<td>2.1b</td>
</tr>
<tr>
<td>Sayers, C.D.</td>
<td>4.2b</td>
</tr>
<tr>
<td>Serpell, C.A.</td>
<td>3.4</td>
</tr>
<tr>
<td>Shaw, E.M.</td>
<td>3.4</td>
</tr>
<tr>
<td>Shires, S.W.</td>
<td>2.3a</td>
</tr>
<tr>
<td>Simpson, J.R.</td>
<td>2.6</td>
</tr>
<tr>
<td>Sissons, J.B.</td>
<td>1.5, 2.5</td>
</tr>
<tr>
<td>Smith, C.D.</td>
<td>1.3</td>
</tr>
<tr>
<td>Smith, K.</td>
<td>1.4, 3.4, 4.4, 4.5, 4.6</td>
</tr>
<tr>
<td>Smith, K. &amp; Lavis</td>
<td>3.4</td>
</tr>
<tr>
<td>Smith, L.F.</td>
<td>1.2</td>
</tr>
<tr>
<td>Smith, S.H.</td>
<td>5.3</td>
</tr>
<tr>
<td>Smythe, J.A.</td>
<td>1.5, 2.5</td>
</tr>
<tr>
<td>Snow, M. &amp; Whitton</td>
<td>3.4</td>
</tr>
<tr>
<td>Solomon, D.J.</td>
<td>1.3</td>
</tr>
<tr>
<td>Sopwith, T.</td>
<td>2.1b, 4.1b</td>
</tr>
<tr>
<td>Southgate, B.A., Pentelow &amp; Bassindale</td>
<td>4.3a</td>
</tr>
<tr>
<td>Springett, J.A.</td>
<td>4.3b</td>
</tr>
<tr>
<td>Squires, R.H.</td>
<td>4.2b</td>
</tr>
<tr>
<td>Stebbing, T.R.R.</td>
<td>1.3</td>
</tr>
<tr>
<td>Stevens, J.H. &amp; Atkinson</td>
<td>4.5</td>
</tr>
<tr>
<td>Storow, E.</td>
<td>2.3a</td>
</tr>
<tr>
<td>Surtees, R.</td>
<td>4.1b</td>
</tr>
<tr>
<td>Succiffe, D.W.</td>
<td>2.3a</td>
</tr>
<tr>
<td>Svendsen, J.A.</td>
<td>4.3a</td>
</tr>
<tr>
<td>Svensson, E.</td>
<td>3.3a</td>
</tr>
<tr>
<td>Swain, A. &amp; Newman</td>
<td>2.1a</td>
</tr>
<tr>
<td>Tarren, G.R.</td>
<td>1.6</td>
</tr>
<tr>
<td>Tebbutt, T.H.Y.</td>
<td>2.4</td>
</tr>
<tr>
<td>Tees Fishery Board</td>
<td>4.3a</td>
</tr>
<tr>
<td>Tees Valley &amp; Cleveland</td>
<td></td>
</tr>
<tr>
<td>Water Board</td>
<td>4.6</td>
</tr>
<tr>
<td>Temperley, G.W.</td>
<td>1.3</td>
</tr>
<tr>
<td>Thatcher, J.P.</td>
<td>5.5</td>
</tr>
<tr>
<td>Thomas, M.J.D.</td>
<td>3.4</td>
</tr>
<tr>
<td>Tomlinson, W.W.</td>
<td>2.1b</td>
</tr>
<tr>
<td>Trotter, F.M.</td>
<td>1.5</td>
</tr>
<tr>
<td>Tuning, H.D.</td>
<td>2.1a, 3.1a, 4.1a</td>
</tr>
<tr>
<td>Turner, J.</td>
<td>4.2b</td>
</tr>
<tr>
<td>Tyneside Distr. Council &amp; Northumberland County Council</td>
<td>2.1b</td>
</tr>
<tr>
<td>Tyne Fishery Board</td>
<td>2.3a</td>
</tr>
<tr>
<td>Tyne Salmon Conservancy Bd</td>
<td></td>
</tr>
<tr>
<td>Unlu, D.</td>
<td>2.4</td>
</tr>
<tr>
<td>Valentine, D.H.</td>
<td>4.1b</td>
</tr>
<tr>
<td>Victoria County History of</td>
<td></td>
</tr>
<tr>
<td>Yorkshire</td>
<td>1.3</td>
</tr>
<tr>
<td>Vincent, P.J.</td>
<td>2.5</td>
</tr>
<tr>
<td>Wallis, J.</td>
<td>1.1</td>
</tr>
<tr>
<td>Water Data Unit</td>
<td>2.4</td>
</tr>
<tr>
<td>Water Pollution Research Bd</td>
<td></td>
</tr>
<tr>
<td>Water Resources Board</td>
<td>4.1a</td>
</tr>
<tr>
<td>Water Resources Board &amp; Scottish Development</td>
<td>1.4, 2.4</td>
</tr>
<tr>
<td>Water Services Handbook</td>
<td>1.6</td>
</tr>
<tr>
<td>Waterworks Statistics</td>
<td>1.6</td>
</tr>
<tr>
<td>Wear &amp; Tees River Board</td>
<td>3.1a</td>
</tr>
<tr>
<td>Weardale &amp; Consett Water Co</td>
<td>3.6</td>
</tr>
<tr>
<td>Welch, D.</td>
<td>4.1b, 4.2b</td>
</tr>
<tr>
<td>Welch, D. &amp; Rawes, M.</td>
<td>4.2b, 4.5</td>
</tr>
<tr>
<td>Wells, A.J.</td>
<td>4.5</td>
</tr>
<tr>
<td>Wheeler, B.D. &amp; Whitton</td>
<td>4.2a</td>
</tr>
<tr>
<td>Whitehead, H.</td>
<td>4.3a</td>
</tr>
<tr>
<td>Whitton, B.A.</td>
<td>3.2a, 4.2a</td>
</tr>
<tr>
<td>Whitton, B.A. &amp; Buckmaster</td>
<td>3.2a</td>
</tr>
<tr>
<td>Whitton, B.A. &amp; Dalpra</td>
<td>4.2a</td>
</tr>
<tr>
<td>Wilkinson, T.P.</td>
<td>2.4</td>
</tr>
<tr>
<td>Willimont, S.G. &amp; Gilchrist-</td>
<td></td>
</tr>
<tr>
<td>Shirlaw</td>
<td>1.5</td>
</tr>
<tr>
<td>Winch, N.J.</td>
<td>1.2</td>
</tr>
<tr>
<td>Winch, N.J., Thornhill &amp; Waugh</td>
<td>2.2b</td>
</tr>
<tr>
<td>Wingate, W.J.</td>
<td>4.3b</td>
</tr>
<tr>
<td>Winter, T.S.R.</td>
<td>4.6</td>
</tr>
<tr>
<td>Wong, M.G.</td>
<td>3.2b</td>
</tr>
<tr>
<td>Woodward, B.B.</td>
<td>1.3</td>
</tr>
<tr>
<td>Woodward, W.B.</td>
<td>3.1a, 4.1b</td>
</tr>
<tr>
<td>Woolacott, D.</td>
<td>2.5</td>
</tr>
<tr>
<td>Wootton, K.J.</td>
<td>3.3a</td>
</tr>
<tr>
<td>Wotton, R.S.</td>
<td>4.3a</td>
</tr>
<tr>
<td>Wright, R.L.</td>
<td>4.5</td>
</tr>
<tr>
<td>Yorkshire Fishery Board</td>
<td>5.3</td>
</tr>
<tr>
<td>Yorkshire Ouse &amp; Hull River Authority</td>
<td>5.1</td>
</tr>
<tr>
<td>Yorkshire River Authority</td>
<td>5.1, 5.6</td>
</tr>
</tbody>
</table>